QC-ABSTRACT

Name of Work:- :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:3:6	70.19 Cum	1	1	Cement
					Sand, Aggregates
2	Precast Slab 100mm thick	71.60Sqm	1	1	Compressive strength
3	M20	11.36 Cum	2	2	Concrete Cube Compressive strength
4	M30	203.51 Cum	8	8	Concrete Cube Compressive strength
5	WMM	70.66			
	Gradation	-	1	1	-
	AIV	-	1	1	-
	Shape test	-	1	1	-
	Attenberg limit	-	1	1	-

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for extra 50Cum

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 12.10.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID: : Cement (Birla Super 53 grade OPC)
Sample Supplied by: : AGENCY
Date of Manufacture: : April - 2020
Date of Testing : 10.10.2020 to 12.10.2020

SLNo	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	310 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	2mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	31.00%	-

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date : 10.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency : **M/S Technical Manager,** Contractor, Bangalore.
Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing : 10.10.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	109	10.90	18.50	81.5	75-100
1.18	113	11.30	29.80	70.2	55-90
600 Micron	254	25.40	55.20	44.8	35-59
300 Micron	212	21.20	76.40	23.6	8-30
150 Micron	165	16.50	92.90	7.1	0-10

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date :10.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager,** Contractor, Bangalore.

Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing :10.10.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	52	0.35	0.35	99.65	95-100
20	6041	40.27	40.62	59.38	30-70
10	4587	30.58	71.20	28.80	10-35
4.75	3623	24.15	95.35	4.65	0-5

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date : 10.10.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager,** Contractor, Bangalore.

Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing : 10.10.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS
40	0	0	0	100	100
20	75	1.5	1.5	98.5	95-100
10	2621	52.4	53.9	46.1	25-55
4.75	1945	38.9	92.8	7.2	0-10

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date : 10.10.2020

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.

Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

IS Code: IS 2720(Part 5):1985

Date of Testing : 08.10.2020 to 10.10.2020

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.45	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MS/WO/13/2020-2021 Date: : 08.10.2020

Aggregate Impact Value

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the Work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
IS Code	: IS 2386 (Part 4):1963(RA 2011)
Type of Mix	: Wet Mix macadam
Date of Testing	: 08.10.2020

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_1 g	294	294	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	22.83	23.24	23.04

Comments:
→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date : 08.10.2020

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.

Name of Work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 08.10.2020

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	324	324	3.2	96.8	95-100
22.4	2056	2380	23.8	76.2	60-80
11.2	2347	4727	47.3	52.7	40-60
4.75	1875	6602	66.0	34.0	25-40
2.36	1324	7926	79.3	20.7	15-30
0.600	380	8306	83.1	16.9	8-22
0.075	1332	9638	96.4	3.6	0-5

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date : 08.10.2020

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of Work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	08.10.2020

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.5	10.8	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.6	14.0	
	Combined Flakiness & Elongation index	26.10	24.8	

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date: 18.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.07.2020	18.07.2020	8.029	347.0	15.42
2	11.07.2020	18.07.2020	8.158	369.4	16.42
3	11.07.2020	18.07.2020	8.200	380.2	16.90

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date: 18.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.07.2020	18.07.2020	8.102	333.2	14.81
2	11.07.2020	18.07.2020	8.175	365.7	16.25
3	11.07.2020	18.07.2020	8.196	371.3	16.50

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 08.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.07.2020	08.08.2020	8.021	523.6	23.27
2	11.07.2020	08.08.2020	8.002	528.1	23.47
3	11.07.2020	08.08.2020	8.085	509.3	22.64

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 08.08.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.07.2020	08.08.2020	8.207	546.3	24.28
2	11.07.2020	08.08.2020	8.165	535.6	23.80
3	11.07.2020	08.08.2020	8.098	528.1	23.47

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date: 23.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.

Name of the work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.041	452.6	20.12
2	16.10.2020	23.10.2020	8.118	463.5	20.60
3	16.10.2020	23.10.2020	8.183	485.2	21.56

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 23.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.126	482.6	21.45
2	16.10.2020	23.10.2020	8.190	469.3	20.86
3	16.10.2020	23.10.2020	8.204	480.1	21.34

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o.: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date: 23.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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ss Sectional Area	: 22500 mm^2
chnical Reference	: IS: 516-1959 (Reaffirmed 2008)
ade of Concrete	: M_{30}
mpressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.025	469.3	20.86
2	16.10.2020	23.10.2020	8.198	482.6	21.45
3	16.10.2020	23.10.2020	8.074	499.5	22.20

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Dasarahalli Division, BBMP Bangalore.
Agency	: M/S Technical Manager(West), KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.009	486.6	21.63
2	16.10.2020	23.10.2020	8.154	492.5	21.89
3	16.10.2020	23.10.2020	8.075	472.2	20.99

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.032	499.6	22.20
2	16.10.2020	23.10.2020	8.154	483.6	21.49
3	16.10.2020	23.10.2020	8.072	499.2	22.19

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ಪೀಣ್ಯ ವಿಭಾಗ, ಬಾಂಗಳೂರು ದಕ್ಷಿಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಂ.ಎಂ. ರಸ್ತೆ, ಪೀಣ್ಯಾನಗರ, ಬೆಂಗಳೂರು

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.052	502.2	22.32
2	16.10.2020	23.10.2020	8.004	493.6	21.94
3	16.10.2020	23.10.2020	8.179	482.5	21.44

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.025	493.6	21.94
2	16.10.2020	23.10.2020	8.154	486.6	21.63
3	16.10.2020	23.10.2020	8.075	492.2	21.88

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
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Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.205	510.3	22.68
2	16.10.2020	23.10.2020	8.198	496.6	22.07
3	16.10.2020	23.10.2020	8.074	512.2	22.76

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Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Dasarahalli Division, BBMP Bangalore.
Agency	: M/S Technical Manager(West), KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.205	726.3	32.28
2	16.10.2020	13.11.2020	8.169	728.9	32.40
3	16.10.2020	13.11.2020	8.036	735.6	32.69

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail: civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No: CQCE/BBMP/KRIDL/WO/13/2020-2021

Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.069	765.3	34.01
2	16.10.2020	13.11.2020	8.056	719.5	31.98
3	16.10.2020	13.11.2020	8.028	728.5	32.38

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಆರ್.ಆರ್. ನಗರ, ಬೆಂಗಳೂರು, ಕರ್ನಾಟಕ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Ref No: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Dasarahalli Division, BBMP Bangalore.

Agency : M/S Technical Manager(West), KRIDL, Bangalore.

Name of the work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2002)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.095	762.3	33.88
2	16.10.2020	13.11.2020	8.005	728.5	32.38
3	16.10.2020	13.11.2020	8.075	719.6	31.98

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Ref No. : CQCE/BBMP/KRIDL/WO/15/2020-2021 Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Dasarahalli Division, BBMP Bangalore.

Agency : M/S Technical Manager(West), KRIDL, Bangalore.

Name of the work : Improvements to CC Roads at Mallikarjuna Swamy Temple and Sree Sankata Bhavana Surrounding area in ward no 15 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mm*150mm*150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube Kg	Failure load (KN)	Compressive strength N/ mm^2
1	16.10.2020	13.11.2020	8.065	765.7	34.03
2	16.10.2020	13.11.2020	8.154	735.9	32.71
3	16.10.2020	13.11.2020	8.079	742.5	33.00

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.198	739.6	32.87
2	16.10.2020	13.11.2020	8.060	752.5	33.44
3	16.10.2020	13.11.2020	8.185	742.9	33.02

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.
Agency	: **M/S Technical Manager(West),** KRIDL, Bangalore.
Name of the work	:Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.095	763.5	33.93
2	16.10.2020	13.11.2020	8.085	728.6	32.38
3	16.10.2020	13.11.2020	8.032	734.9	32.66

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Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.

Name of the work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.065	751.6	33.40
2	16.10.2020	13.11.2020	8.198	729.6	32.43
3	16.10.2020	13.11.2020	8.032	732.5	32.56

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Job No.: CQCE/BBMP/KRIDL/WO/13/2020-2021 Date: 13.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP Bangalore.

Agency : **M/S Technical Manager(West),** KRIDL, Bangalore.

Name of the work :Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.065	726.3	32.28
2	16.10.2020	13.11.2020	8.154	752.2	33.43
3	16.10.2020	13.11.2020	8.078	718.9	31.95

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Ref No: CQ/E/BBMP/KRIDL/WO/13/2020-2021

Date: 24.07.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : Executive Engineer, Dasarahalli Division, BBMP Bangalore.

Contractor : M/S Technical Manager(West), KRIDL, Bangalore.

Name of Work : Improvements to CC Roads at Mallikarjuna Swamy Temple and Shree Shakthi Bhavana Surrounding area in ward no 13 Shettyhalli Sub division, BBMP, Bangalore.

No of Sample Tested : 03

Date of Testing : 24.07.2020

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1985.

Grade of Concrete : M_{30}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	80.00	95.00	0.452	2515.96	1.90	0.989	29.60	15.08	16.28	16.11	20.13
2	80.00	95.00	0.429	2389.87	1.90	0.989	32.20	16.40	17.71	17.52	21.90
3	80.00	95.00	0.457	2542.76	1.90	0.989	31.50	16.04	17.33	17.14	21.42

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